CONTENTS

JANUARY

S. DUHAU, M. DE LA VEGA and M. C. AZPIAZU	1	Effect of the electron temperature in the electron number density and dynamics of the equatorial *E*-region
K. J. HARKER and P. M. BANKS	11	Near fields in the vicinity of pulsed electron beams in space
K. MOHANAKUMAR, S. DEVANARAYANAN, V. NARAYANAN and K. S. APPU	21	Middle atmospheric thermal structures in Eastern and Western Hemispheres over a solar cycle
G. C. REID	27	Radar observations of negative-ion photodetachment at sunrise in the auroral-zone mesosphere
H. S. AHLUWALIA and J. F. RIKER	39	Secular changes in the upper cut-off rigidity of the solar diurnal anisotropy of cosmic rays
H. S. AHLUWALIA and J. F. RIKER	45	The diurnal anisotropy of cosmic rays and the heliospheric transport parameters
S. P. GARY and D. SCHRIVER	51	The electromagnetic ion cyclotron beam anisotropy instability
R. SCHMIDT and A. PEDERSEN	61	Long-term behaviour of photo-electron emission from the electric field double probe sensors on *GEOS*-2
YA. L. AL'PERT	71	On simulating the process of the generation of geomagnetic Pc1 pulsations in the magnetosphere
D. G. KING-HELE and D. M. C. WALKER	79	Geopotential harmonics of order 15 and 30, derived from the orbital resonances of 25 satellites
S. FUJITA	91	Duct propagation of a short-period hydromagnetic wave based on the international reference ionosphere model
H. G. JAMES	105	Discharge of RF-induced spacecraft dc potential by positive ions
D. D. BARBOSA	119	A two-dimensional radial outflow model of plasma at Jupiter
M. NISHINO and Y. TANAKA	127	Observations of auroral LHR noise by the sounding rocket S-310JA-6

FEBRUARY

S. S. SAZHIN	139	A model of day-time ELF emissions
L. ZHU and J. R. KAN	145	Time evolution of the westward-traveling surge on an ionospheric time scale
C. HALDOUPIS and E. NIELSEN	153	Doppler spectrum observations of long discrete echoes
W. J. BOULTON	161	Density scale height and zonal wind speed deduced from 296 orbits of *Intercosmos* 10 rocket (1973-82B)
W. MIYAKE and T. MUKAI	185	Proton temperature properties in the solar wind
N. IWAGAMI and T. OGAWA	191	Thermospheric NO profiles observed at the diminishing phase of solar cycle 21
U. WEINERT and B. SHIZGAL	199	Radial dependence of the density in a planetary exosphere
I. G. RICHARDSON, M. SCHOLER, B. T. TSURUTANI, P. W. DALY, D. N. BAKER and R. C. ELPHIC	209	Simultaneous observations of the near-Earth and distant geomagnetic tail during a substorm by *ISEE*-1, *ISEE*-3 and geostationary spacecraft
C. J. FARRUGIA, R. C. ELPHIC, D. J. SOUTHWOOD and S. W. H. COWLEY	227	Field and flow perturbations outside the reconnected field line region in flux transfer events: theory

G. S. N. MURTY and J. S. KIM — 241 — Night-time location of the auroral oval and mid-latitude thermospheric temperature

K. U. KAILA — 245 — An iterative method for calculating the altitudes and positions of auroras along the arc

G. KNOP and F. ARNOLD — 259 — Atmospheric acetonitrile measurements in the tropopause region using aircraft-borne active chemical ionization mass spectrometry

J.-Y. RONCIN, F. LAUNAY and K. YOSHINO — 267 — New emission bands in the high resolution vacuum ultra-violet spectrum of molecular nitrogen

MARCH

S. J. TAPPIN — 271 — Numerical modelling of scintillation variations from interplanetary disturbances

B. T. TSURUTANI, M. E. BURTON, E. J. SMITH, D. E. JONES, R. P. LEPPING and A. J. LAZARUS — 285 — Distant (200–238 R_E) magnetotail lobe characteristics during quiet solar wind conditions

B. T. TSURUTANI, M. E. BURTON, E. J. SMITH and D. E. JONES — 289 — Statistical properties of magnetic field fluctuations in the distant plasmasheet

M. Y. YU, P. K. SHUKLA and R. S. B. ONG — 295 — Scattering of electromagnetic waves by electron acoustic waves

D. REES, N. MEREDITH and M. WALLIS — 299 — Comparison of ion structures in comets Halley and Giacobini-Zinner

R. J. MORRIS and K. D. COLE — 313 — "Serpentine emission" at the high latitude Antarctic station, Davis

R. M. WILSON — 329 — Geomagnetic response to magnetic clouds

T. NYGRÉN, L. JALONEN and A. HUUSKONEN — 337 — A new method of measuring the ion–neutral collision frequency using incoherent scatter radar

E. MÖBIUS, K. PAPADOPOULOS and A. PIEL — 345 — On the turbulent heating and the threshold condition in the critical ionization velocity interaction

N. SINGH, H. THIEMANN and R. W. SCHUNK — 353 — Simulations of auroral plasma processes: electric fields, waves and particles

397 — Corrigenda

APRIL

J.-H. YEE and A. DALGARNO — 399 — Energy transfer of $O(^1D)$ atoms in collision with $O(^3P)$ atoms

B. T. TSURUTANI and W. D. GONZALEZ — 405 — The cause of high-intensity long-duration continuous *AE* activity (HILDCAAS): interplanetary Alfvén wave trains

M. J. TAYLOR, M. A. HAPGOOD and P. ROTHWELL — 413 — Observations of gravity wave propagation in the OI (557.7 nm), Na (589.2 nm) and the near infrared OH nightglow emissions

G. ROSTOKER and B. T. SULLIVAN — 429 — Polarization characteristics of Pc5 magnetic pulsations in the dusk hemisphere

S. P. GUPTA and A. NARAYAN — 439 — Balloon-borne measurements of ion conductivity over low latitude stratosphere

C. E. MEEK and A. H. MANSON — 445 — Middle atmosphere lunar tides at Saskatoon (52°N, 107°W)

C. J. OWEN and S. W. H. COWLEY — 451 — Simple models of time-dependent reconnection in a collision-free plasma with an application to substorms in the geomagnetic tail

C. J. OWEN and S. W. H. COWLEY — 467 — A note on current sheet stress balance in the geomagnetic tail for asymmetrical tail lobe plasma conditions

S. Okano and J. S. Kim 475 Observations of a SAR-arc associated with an isolated magnetic substorm

W. Baumjohann and R. A. Treumann 483 Trapping conditions for energetic particles incident on a tangential discontinuity surface

A. Hewish and P. J. Duffet-Smith 487 A new method of forecasting geomagnetic activity and proton showers

M. W. Dunlop, D. J. Southwood and W. A. C. Mier-Jedrzejowicz 493 On a magnetic source of southward motion of the AMPTE solar wind barium release of 27 December 1984

J. M. Grebowsky, H. A. Taylor, Jr., M. W. Pharo, III and N. Reese 501 Thermal ion perturbations observed in the vicinity of the Space Shuttle

MAY

D. Offermann 515 The MAP/GLOBUS campaign 1983: introduction

U. Langematz, K. Labitzke and E. Reimer 525 Synoptic analysis and trajectories during the MAP/GLOBUS campaign 1983

S. Muller and A. J. Krueger 539 Analysis and comparison of ozone maps obtained by TOMS and TOVS during the MAP/GLOBUS 1983 campaign

J. de La Noë, J. Brillet, C. Turati, G. Mégie, S. Godin, J. Pelon, P. Marché, A. Barbe, C. J. Gibbins, A. W. J. Dawkins and W. A. Matthews 547 Remote and ground-based measurements of ozone profiles during the MAP/GLOBUS 1983 campaign

P. Aimedieu, W. A. Matthews, W. Attmannspacher, R. Hartmannsgruber, J. Cisneros, W. Komhyr and D. E. Robbins 563 Comparison of *in situ* stratospheric ozone measurements obtained during the MAP/GLOBUS 1983 campaign

D. E. Robbins 587 Ozone measurements of the NASA-JSC u.v. photometer during the MAP/GLOBUS campaign of 1983

P. C. Simon, W. Peetermans, E. Plateau, P. Rigaud, J.-P. Naudet, D. Huguenin, D. Offermann and H. Rippel 595 Remote sensing ozone measurements from stratospheric balloon during the MAP/GLOBUS campaign 1983

W. A. Matthews, P. Aimedieu, G. Mégie, J. Pelon, W. Attmannspacher, W. Komhyr, P. Marché, J. de La Noë, P. Rigaud, D. E. Robbins and P. C. Simon 603 General comparison of ozone vertical profiles obtained by various techniques during the 1983 MAP/GLOBUS campaign

P. Fabian, G. Flentje and W. A. Matthews 609 Stratospheric NO profiles measured simultaneously using two chemiluminescent balloon-borne sondes

J. P. Pommereau, P. Fabian, G. Flentje, M. Helten, H. W. Pätz, D. H. Ehhalt, F. Karcher, G. Froment, G. Armand, W. A. Matthews, D. Offermann, H. Rippel, P. Rigaud, J. P. Naudet, D. Huguenin, P. C. Simon, W. Peetermans, P. Vandeneede, R. Zander and G. Roland 615 Intercomparison of stratospheric NO_2 and NO_3 measurements during MAP/GLOBUS 1983

J. P. Naudet, D. W. Rusch, R. J. Thomas, R. T. Clancy, C. A. Barth, J. Wedding, J. M. Zawodny, P. Fabian and M. Helten 631 Stratospheric NO_2 from the *Solar Mesosphere Explorer* during MAP/GLOBUS 1983

G. Brasseur, D. Cariolle, A. De Rudder, L. J. Gray, J. A. Pyle, E.-P. Röth, U. Schmailzl and D. J. Wuebbles 637 Odd nitrogen during the MAP/GLOBUS 1983 campaign: theoretical considerations

U. SCHMIDT, G. KULESSA, E. KLEIN, E.-P. RÖTH, P. FABIAN and R. BORCHERS — 647 Intercomparison of balloon-borne cryogenic whole air samplers during the MAP/GLOBUS 1983 campaign

R. BORCHERS, P. FABIAN, B. C. KRÜGER, S. LAL, U. SCHMIDT, D. KNAPSKA and S. A. PENKETT — 657 CFC-113 (CCl_2F–$CClF_2$) in the stratosphere

R. ZANDER, G. ROLAND, L. DELBOUILLE, A. J. SAUVAL, P. MARCHÉ, F. KARCHER, M. AMOUDEI and B. DUFOUR — 665 Concentrations of hydrogen chloride and hydrogen fluoride measured during the MAP/GLOBUS campaign of September 1983

D. OFFERMANN, H. RIPPEL, P. AIMEDIEU, W. A. MATTHEWS, G. MÉGIE, E. ARIJS, J. INGELS, D. NEVEJANS, W. ATTMANNSPACHER, J. M. CISNEROS, A. W. DAWKINS, D. DEMUER, P. FABIAN, F. KARCHER, G. FROMENT, U. LANGEMATZ, R. REITER, K. W. ROTHE, U. SCHMIDT and R. J. THOMAS — 673 Disturbance of stratospheric trace gas mixing ratios during the MAP/GLOBUS 1983 campaign

J. INGELS, D. NEVEJANS, P. FREDERICK and E. ARIJS — 685 Acetonitrile and sulfuric acid concentrations derived from ion composition measurements during the MAP/GLOBUS 1983 campaign

H. SCHLAGER and F. ARNOLD — 693 Balloon-borne composition measurements of stratospheric negative ions and inferred sulfuric acid vapor abundances during the MAP/GLOBUS 1983 campaign

JUNE

S. B. GANGULI, H. G. MITCHELL, JR. and P. J. PALMADESSO — 703 Behavior of ionized plasma in the high latitude topside ionosphere: the polar wind

H. SCHLAGER and F. ARNOLD — 715 On stratospheric acetonitrile detection by passive chemical ionization mass spectrometry

A. GERANIOS — 727 Statistical analysis of magnetically closed structures

C. J. FARRUGIA, D. J. SOUTHWOOD, S. W. H. COWLEY, R. P. RIJNBEEK and P. W. DALY — 737 Two-regime flux transfer events

H. SAITO, T. YOSHINO and N. SATO — 745 Narrow-banded ELF emissions over the southern polar region

S. S. SAZHIN — 753 Quasilinear models of oblique whistler-mode instabilities

B. S. LANCHESTER and M. H. REES — 759 Field-aligned current reversals and fine structure in a dayside auroral arc

K. OMIDVAR and J. E. FREDERICK — 769 Atmospheric odd oxygen production due to the photodissociation of ordinary and isotopic molecular oxygen

L. A. HAJKOWICZ and R. D. HUNSUCKER — 785 A simultaneous observation of large-scale periodic TIDs in both hemispheres following an onset of auroral disturbances

M. S. BOBROV — 793 The solar wind streams from flares: magnetic field configuration at 1 a.u.

K. YUMOTO — 799 Characteristics of daytime bay and Pi2 magnetic variations: a case study

G. W. PRÖLSS — 807 Storm-induced changes in the thermospheric composition at middle latitudes

A. N. WRIGHT — 813 The evolution of an isolated reconnected flux tube

Y. K. TULUNAY and J. M. GREBOWSKY — 821 Hemispheric differences in the morphology of the high latitude ionosphere measured at ~ 500 km

J. KANGAS, T. PIKKARAINEN and J. V. OLSON — 827 Simultaneous observations of IPDP type wave events in the evening and morning hours

833 Corrigendum

JULY

S. P. VOSKOBOYNIKOV, V. A. ROZHANSKY and L. D. TSENDIN — 835 — Numerical modelling of three-dimensional plasma cloud evolution in crossed $\mathbf{E} \times \mathbf{B}$ fields

L. L. COGGER, G. G. SHEPHERD, M. M. GOGOSHEV, TS. P. DACHEV and M. G. GERDJIKOVA — 845 — Satellite observations of OII (7320–7330 Å) emission in aurora

C. O. HINES and D. W. TARASICK — 851 — On the detection and utilization of gravity waves in airglow studies

S. S. SAZHIN — 867 — Electrostatic waves at electron gyrofrequency

R. P. RIJNBEEK, C. J. FARRUGIA, D. J. SOUTHWOOD, M. W. DUNLOP, W. A. C. MIER-JEDRZEJOWICZ, C. P. CHALONER, D. S. HALL and M. F. SMITH — 871 — A magnetic boundary signature within flux transfer events

YA. L. AL'PERT and D. S. FLIGEL — 879 — On fundamental frequencies of the cavity of the magnetosphere, two-fold and three-fold Pc1 pulsations

G. J. BAILEY, P. A. SIMMONS and R. J. MOFFETT — 887 — A theoretical study of the relationship between electron temperature and electron concentration in the daytime mid- to low-latitude *F*-layer

J. R. KAN — 903 — Generation of field-aligned currents in magnetosphere–ionosphere coupling in a MHD plasma

C. D. FRY and S.-I. AKASOFU — 913 — Latitudinal dependence of solar wind speed

A. N. WINTERBOTTOM and W. J. BOULTON — 921 — Analysis of the orbit of *Intercosmos* 10 rocket (1973-83B) in its last 15 days

D. G. KING-HELE and D. M. C. WALKER — 937 — Values of 16th-order harmonics in the geopotential from analysis of resonant orbits

J. K. HARGREAVES, H. RANTA, A. RANTA, E. TURUNEN and T. TURUNEN — 947 — Observations of the polar cap absorption event of February 1984 by the EISCAT incoherent scatter radar

S. DEVANARAYANAN and K. MOHANAKUMAR — 959 — Equatorial middle atmospheric temperature response to solar activity, 1971–1982, from spectral analyses

AUGUST

S. C. CHAPMAN, A. D. JOHNSTONE and A. J. COATES — 965 — The velocity distribution function of the neutral lithium cloud produced by an *AMPTE* solar wind release

H. LE TEXIER, S. SOLOMON and R. R. GARCIA — 977 — Seasonal variability of the OH Meinel bands

D. V. SARAFOPOULOS and E. T. SARRIS — 991 — Transient field-aligned electric fields inside the plasma sheet inferred from measurements of energetic particles

C. A. WAGNER — 997 — The accuracy of a Goddard *TOPEX* gravity model as seen by independent resonant data

T. YAMAMOTO and N. HORI — 1009 — Latitudinal structures of discrete arcs resulting from viscous interaction between sheared plasma flows

D. C. HIRSCHI and D. B. BEARD — 1021 — Doppler shifts in zodiacal light

J. J. LOPEZ-MORENO, R. RODRIGO, F. MORENO, M. LOPEZ-PUERTAS and A. MOLINA — 1029 — Altitude distribution of vibrationally excited states of atmospheric hydroxyl at levels $v = 2$ to $v = 7$

P. MOORE and W. J. BOULTON — 1039 — Some aspects of a global thermospheric density model deduced from the analysis of the orbit of *Intercosmos* 13 rocket (1975-22B)

Y. TANAKA, M. NISHINO and M. HAYAKAWA — 1053 — Conjugate measurements of VLF transmitter signals at middle latitude ($L = 1.93$)

V. DEGEN — 1061 — Modeling of the N_2^+ first negative bands in the sunlit aurora

K. YOSHINO, D. E. FREEMAN, J. R. ESMOND and W. H. PARKINSON — 1067 — High resolution absorption cross-sections and band oscillator strengths of the Schumann–Runge bands of oxygen at 79 K

G. S. N. MURTY and J. S. KIM — 1077 — Temperatures and meridional winds in the vicinity of the SAR-arc as observed from Albany, New York

K. A. SPEAR and S. SOLOMON — 1087 — Mesospheric ionization and O_2 ($^1\Delta_g$) depletion

SEPTEMBER

A. V. BUZEVICH, A. S. LEONOVICH and V. A. PARKHOMOV — 1093 — Geomagnetic pulsations associated with MHD-waveguide in magnetospheric ducts

W. D. GONZALEZ and B. T. TSURUTANI — 1101 — Criteria of interplanetary parameters causing intense magnetic storms (D_{st}<-100 nT)

J. F. RIKER and H. S. AHLUWALIA — 1111 — A survey of the cosmic ray diurnal variation during 1973–1979—I. Persistence of solar diurnal variation

J. F. RIKER and H. S. AHLUWALIA — 1117 — A survey of the cosmic ray diurnal variation during 1973–1979—II. Application of diffusion–convection model to diurnal anisotropy data

J. L. PARISH, W. F. DENIG and W. J. RAITT — 1123 — Delay time for the onset of beam plasma discharge

W. J. BOULTON — 1127 — The semi-annual variation in air density from June 1974 until September 1977 from the analysis of the orbit of *Intercosmos* 10 rocket (1973–82B)

I. C. MCDADE, E. J. LLEWELLYN, D. P. MURTAGH and R. G. H. GREER — 1137 — ETON 5: simultaneous rocket measurements of the OH Meinel $\Delta v = 2$ sequence and (8,3) band emission profiles in the nightglow

D. P. MURTAGH, J. STEGMAN, G. WITT, E. J. LLEWELLYN and I. C. MCDADE — 1149 — A twilight measurement of the OH(8–3) Meinel band and atmospheric temperature

H. RISHBETH, T. J. FULLER-ROWELL and D. REES — 1157 — Diffusive equilibrium and vertical motion in the thermosphere during a severe magnetic storm: a computational study

S. BATTEN, D. REES and T. J. FULLER-ROWELL — 1167 — A numerical data base for VAX and personal computers for the storage, reconstruction and display of global thermospheric and ionospheric models

W. ALLAN, E. M. POULTER and S. P. WHITE — 1181 — Hydromagnetic wave coupling in the magnetosphere—magnetic fields and Poynting fluxes

W. ALLAN, E. M. POULTER and S. P. WHITE — 1193 — Structure of magnetospheric MHD resonances for moderate "azimuthal" asymmetry

V. A. SERGEEV, V. S. SEMENOV and M. V. SIDNEVA — 1199 — Impulsive reconnection in the magnetotail during substorm expansion

T. K. BREUS and A. M. KRYMSKII — 1213 — Some problems of the solar wind interaction with Venus

T. K. BREUS, A. M. KRYMSKII and V. YA. MITNITSKII — 1221 — Interaction of mass-loaded solar wind flow with blunt body

1229 — Corrigendum

OCTOBER

K. M. TORKAR, W. RIEDLER, G. KREMSER, A. KORTH, S. ULLALAND, J. STADSNES, L. P. BLOCK, I. B. IVERSEN, P. TANSKANEN, J. KANGAS, N. CORNILLEAU-WEHRLIN and J. SOLOMON — 1231 — A study of the interaction of VLF waves with equatorial electrons and its relationship to auroral X-rays in the morning sector

F. G. McCormac, T. L. Killeen, B. Nardi and R. W. Smith — 1255 — How close are ground-based Fabry–Perot thermospheric wind and temperature measurements to exospheric values? A simulation study

S. S. Sazhin — 1267 — An analytical model of quasiperiodic ELF–VLF emissions

H. K. Myrabø — 1275 — Night airglow O_2 (0–1) atmospheric band emission during the northern polar winter

A. A. Gusev, G. I. Pugacheva, L. Just and K. Kudela — 1281 — On the sources of high energy electrons trapped in the inner radiation zone

F. Primdahl, G. Marklund and I. Sandahl — 1287 — Rocket observation of *E*–*B*-field correlations showing up- and down-going Poynting flux during an auroral breakup event

R. R. Meier — 1297 — Issues relating to "holes" in the OI 1304 Å far u.v. dayglow

V. P. Bhatnagar and J. R. Burrows — 1301 — Response to the polar cap boundary and the current system to changes in IMF observed from the Magsat satellite in the Southern Hemisphere during summer

K. Henriksen, L. Veseth, C. S. Deehr and R. W. Smith — 1317 — Neutral temperatures and emission height changes in an *E*-region aurora

I. G. Richardson, S. W. H. Cowley, R. J. Hynds, C. Tranquille, T. R. Sanderson, K.-P. Wenzel and P. W. Daly — 1323 — Observations of energetic water-group ions at comet Giacobini-Zinner: implications for ion acceleration processes

NOVEMBER

N. A. Tsyganenko — 1347 — Global quantitative models of the geomagnetic field in the cislunar magnetosphere for different disturbance levels

R. E. Gold, L. J. Lanzerotti and C. G. Maclennan — 1359 — Enhanced low energy (1 MeV) ion fluxes in the outer heliosphere

B. R. Clemesha, H. Takahashi and Y. Sahai — 1367 — Vehicle glow observed during a rocket sounding experiment

K. S. Hwang, N. H. Stone, K. H. Wright, Jr. and U. Samir — 1373 — The emissions of broadband electrostatic noise in the near vicinity of the shuttle Orbiter

Ya. L. Al'pert — 1381 — On spectra and some properties of Pc1 geomagnetic pulsations of a complex shape

J. H. Yee and V. J. Abreu — 1389 — Mesospheric 5577 Å green line and atmospheric motions—*Atmosphere Explorer* satellite observations

H. Muto and M. Hayakawa — 1397 — Ray-tracing study of the propagation in the magnetosphere of whistler-mode VLF emissions with frequency above one half the gyrofrequency

Q. C. Cheng, J. R. Kan and S.-I. Akasofu — 1405 — Dependence of the Region II field-aligned currents on ionospheric conductivity gradients

F. Wei, H. Du and Y. C. Whang — 1419 — Statistical properties of interplanetary fluctuations behind the bow shock

K. Suvanto — 1429 — Auroral *F*-region ion velocity distributions in the presence of large flows and electrostatic waves

R. J. Morris and K. D. Cole — 1437 — Pc3 magnetic pulsations at Davis, Antarctica

R. J. Forsyth and P. C. Wraight — 1449 — A survey of research on nightglow variability

J. M. Grebowsky, H. A. Taylor, Jr., M. W. Pharo, III and N. Reese — 1463 — Thermal ion complexities observed within the Spacelab 2 bay

P. W. Erdman and E. C. Zipf — 1471 — A laboratory measurement of the Doppler broadened NII λ 5005.15 Å emission line-width produced by electron impact excitation of N_2

Book Review — 1475

DECEMBER

U. SAMIR, R. H. COMFORT, K. H. WRIGHT, JR. and N. H. STONE	1477	Intercomparison among plasma wake models for plasmaspheric and ionospheric conditions
N. HORI and T. YAMAMOTO	1489	On the divergence of the ionospheric electric field around the westward travelling surge
R. M. THORNE and B. T. TSURUTANI	1501	Resonant interactions between cometary ions and low frequency electromagnetic waves
D. Y. ZHANG and K. D. COLE	1513	Some aspects of electric field mapping in the auroral ionosphere
R. J. STENING and D. E. WINCH	1523	Night-time geomagnetic variations at low latitudes
I. C. MCDADE, E. J. LLEWELLYN, R. G. H. GREER and D. P. MURTAGH	1541	ETON 6: a rocket measurement of the O_2 infrared atmospheric (0–0) band in the nightglow
P. NENOVSKI, A. BOCHEV and I. ARSHINKOV	1553	Quasi-periodical small-scale magnetic disturbances in the low-altitude cusp
P. NENOVSKI and G. MOMCHILOV	1561	Model of polarization state of compressional surface MHD waves in the low-altitude cusp
N. Y. MISCONI and E. T. RUSK	1571	Brightness contribution of zodiacal dust along the line of sight in and out of the ecliptic plane and in the F-corona